

FIG. 3A

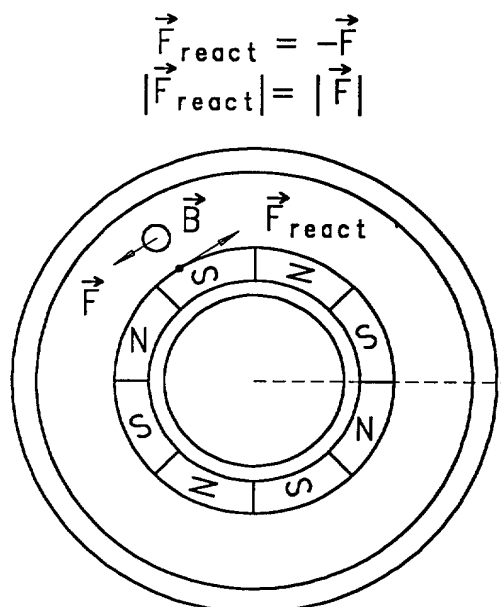
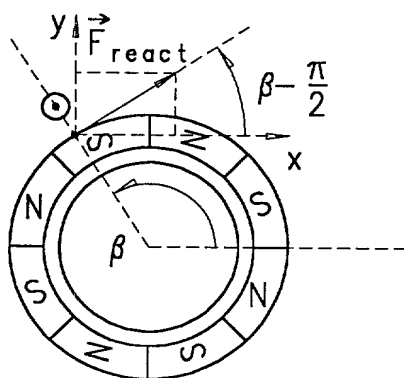


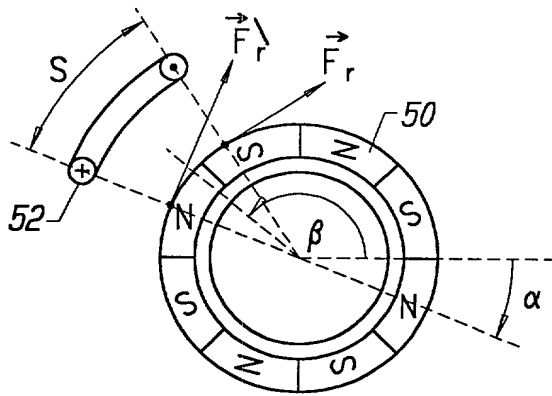
FIG. 3B

$\vec{F}_{react} \forall |\vec{F}_{react}| > 0$



$F_x = |\vec{F}_{react}| \cdot \sin(\beta)$
 $F_y = |\vec{F}_{react}| \cdot \cos(\beta + \pi)$
 $F_y = -|\vec{F}_{react}| \cdot \cos(\beta)$

FIG. 4



⊕ away from the reader: $-I$

⊙ towards the reader: +I

FIG. 5

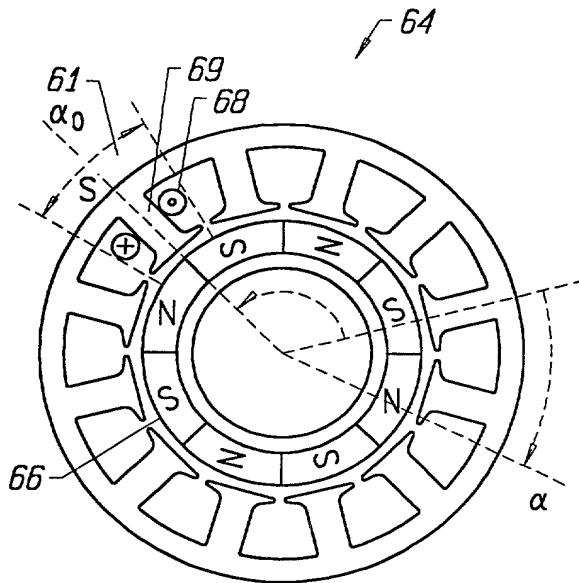


FIG. 6A

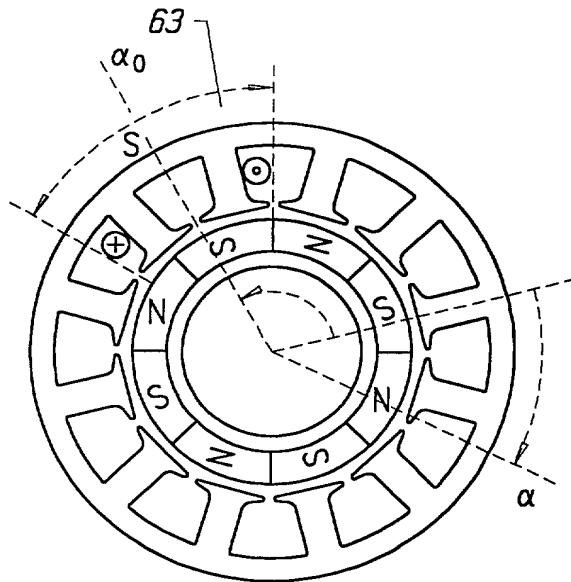
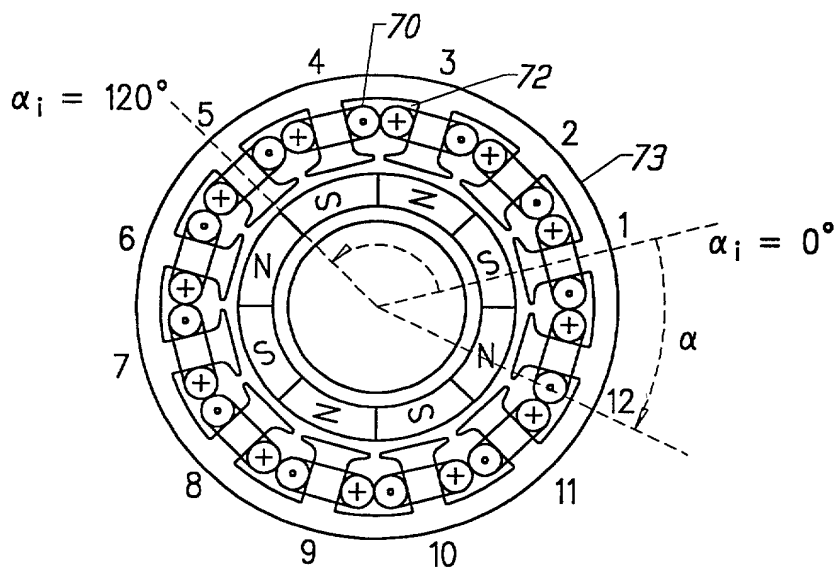


FIG. 6B



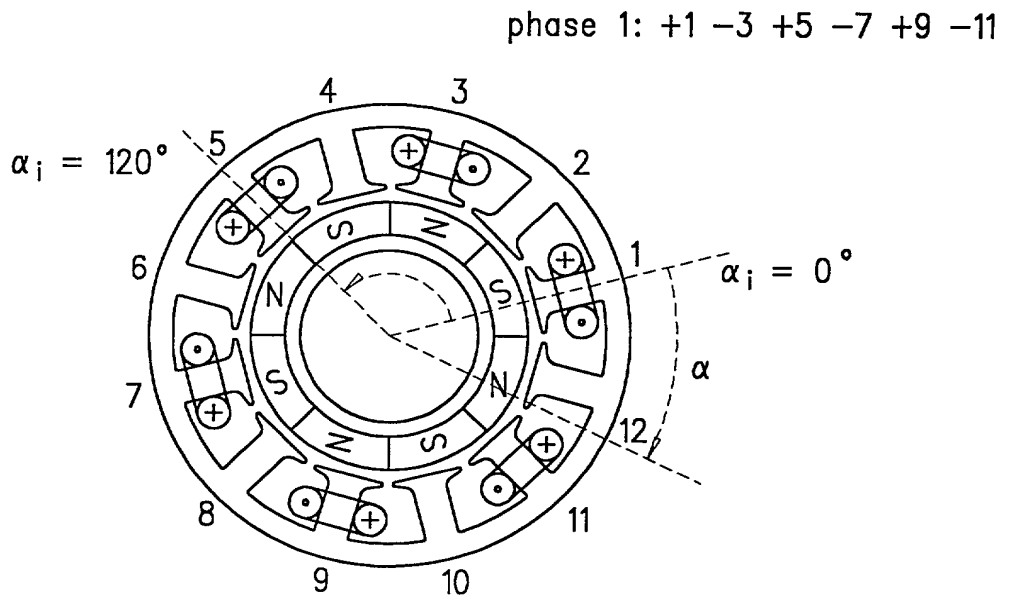


FIG. 9

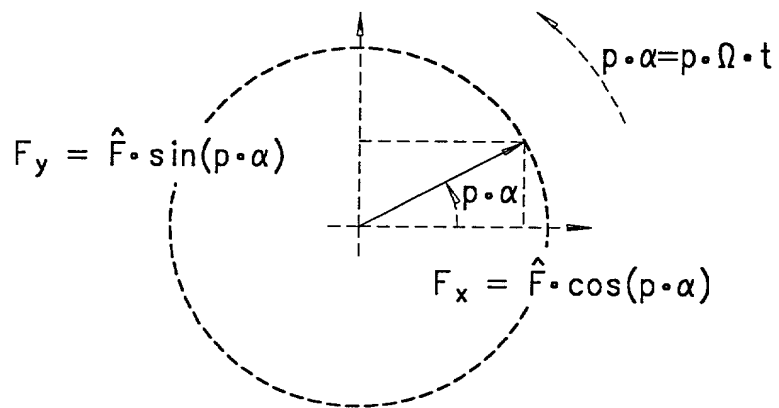


FIG. 10

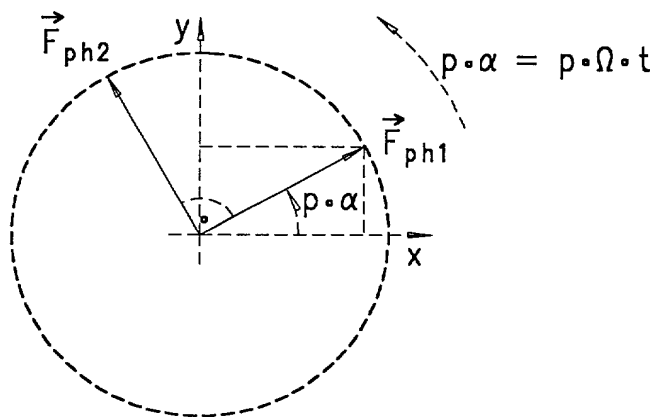


FIG. 11

 phase 1: +1 -3 +5 -7 +9 -11
  phase 2: +2 -4 +6 -8 +10 -12

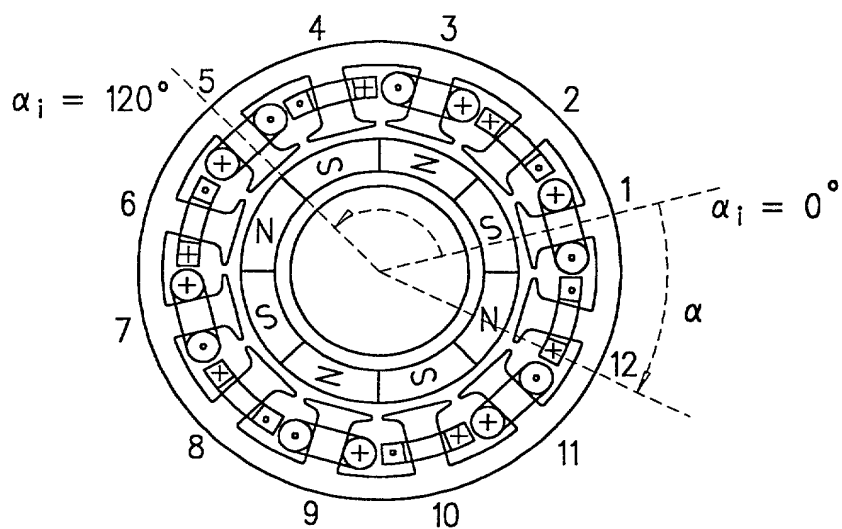


FIG. 12

- phase 1: +1 -3 +5 -7 +9 -11
- phase 2: +2 -4 +6 -8 +10 -12

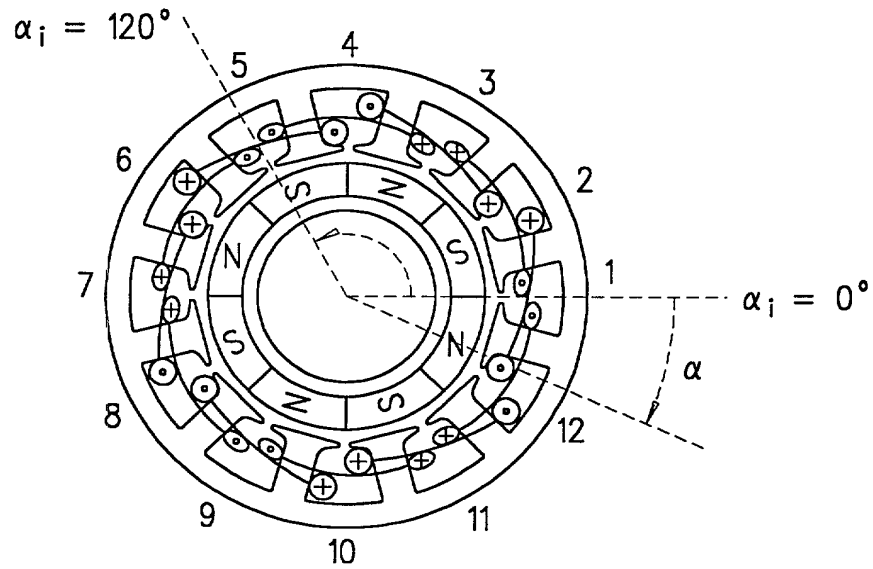


FIG. 13

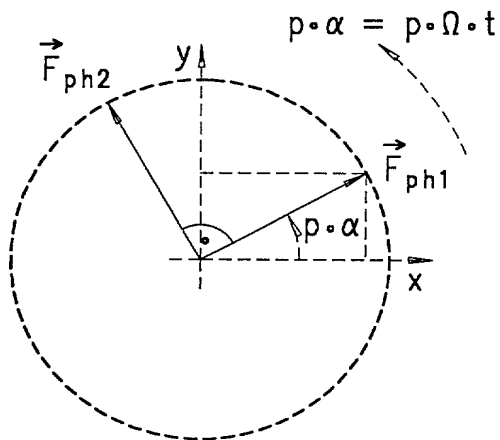


FIG. 14A

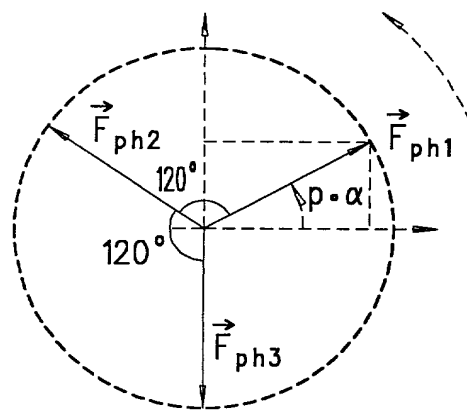


FIG. 14B

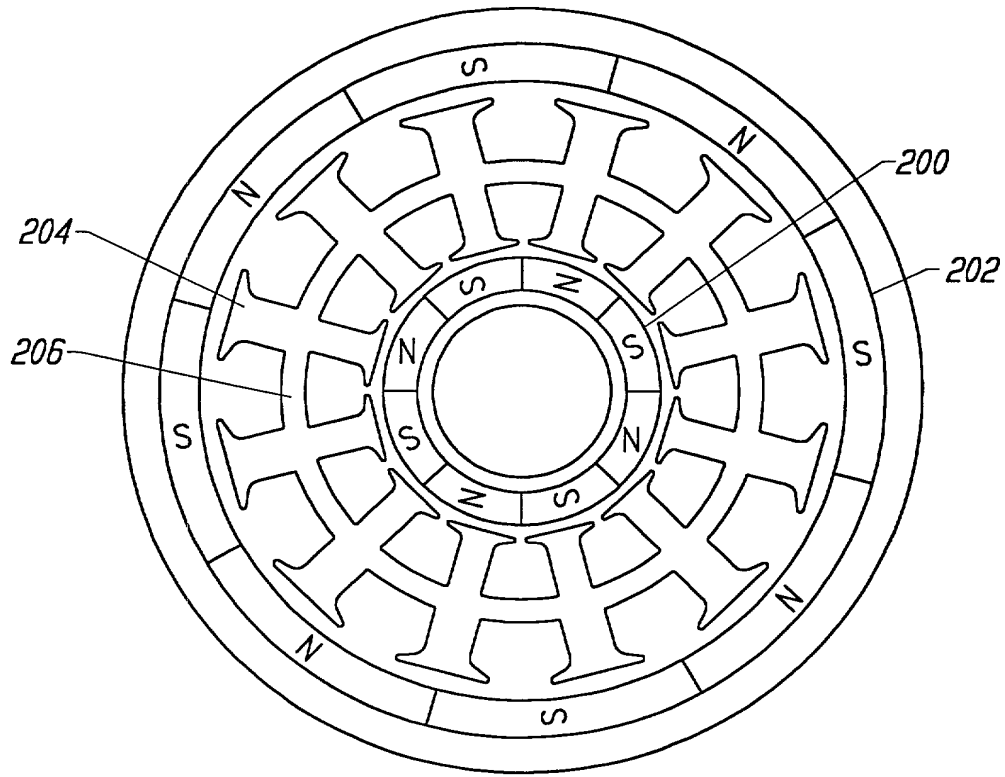


FIG. 15

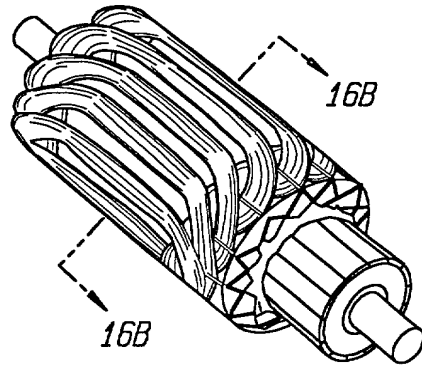


FIG. 16A

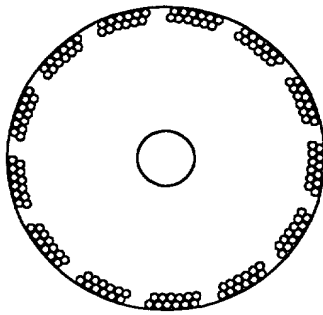


FIG. 16B

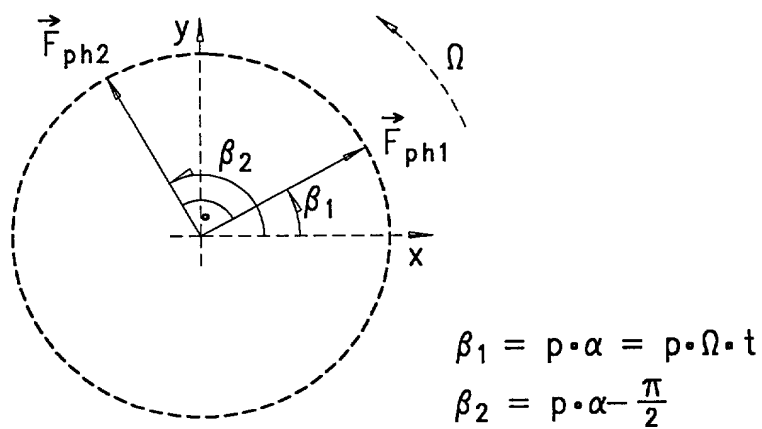


FIG. 17

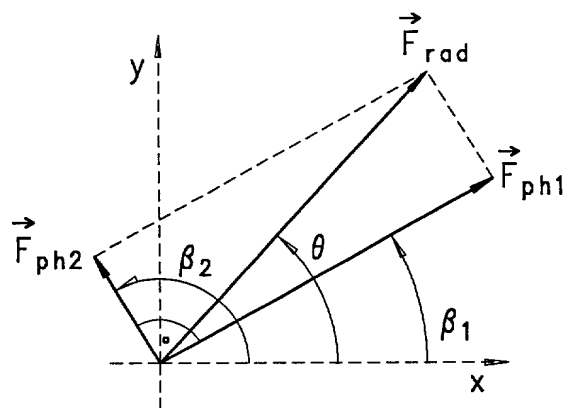


FIG. 18

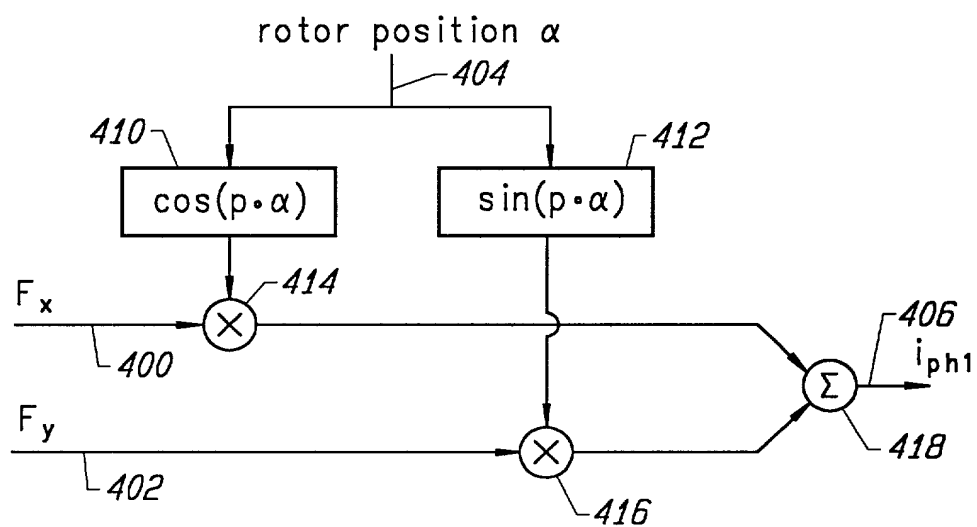


FIG. 21

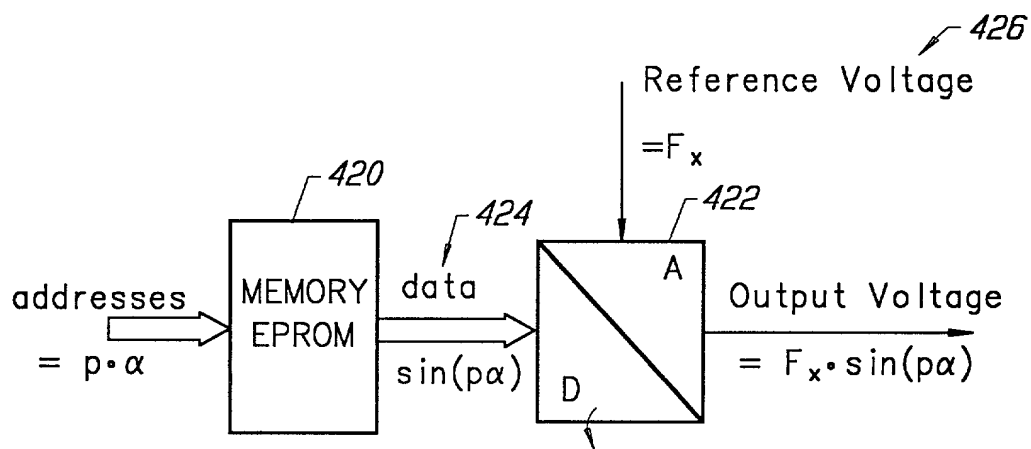


FIG. 22

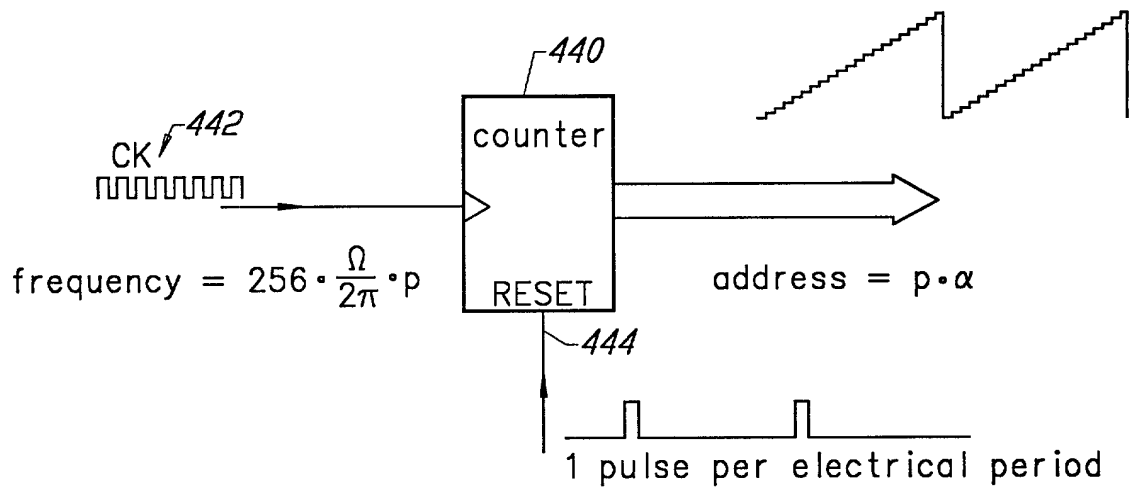


FIG. 23

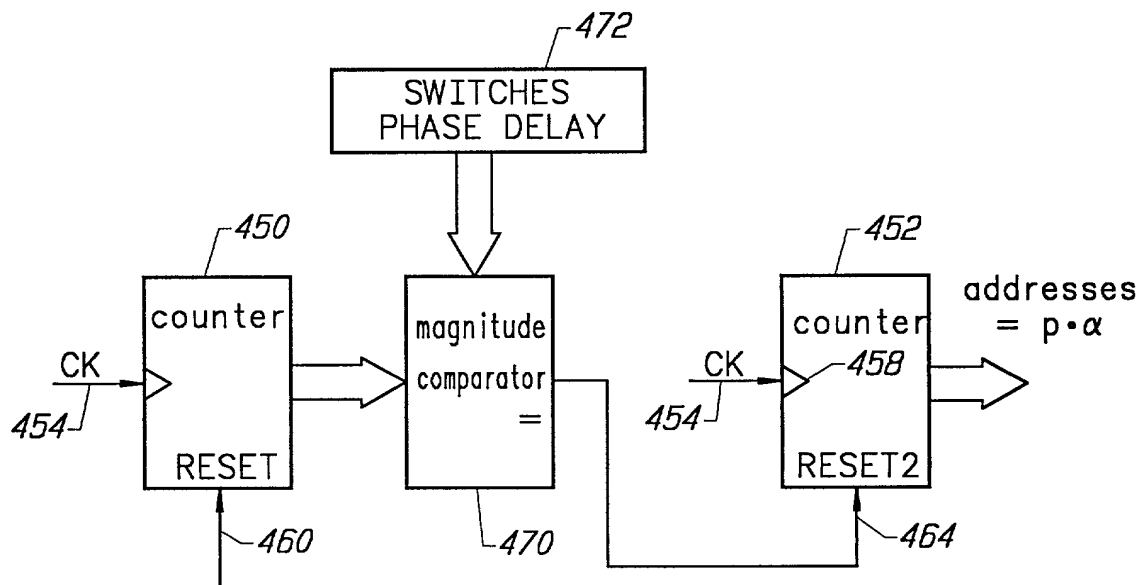


FIG. 24

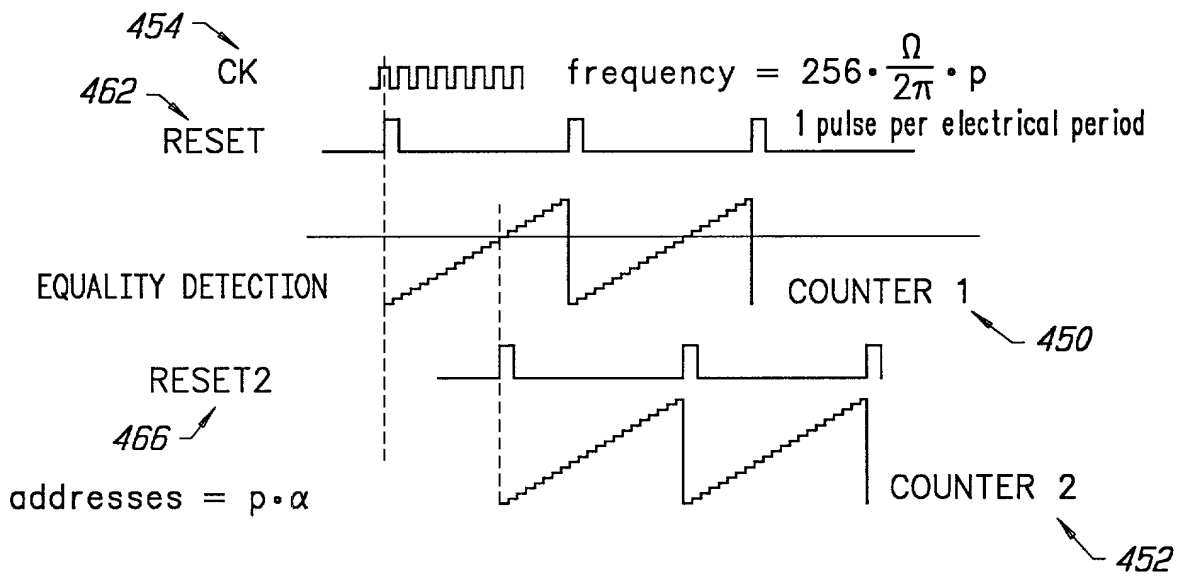


FIG. 25

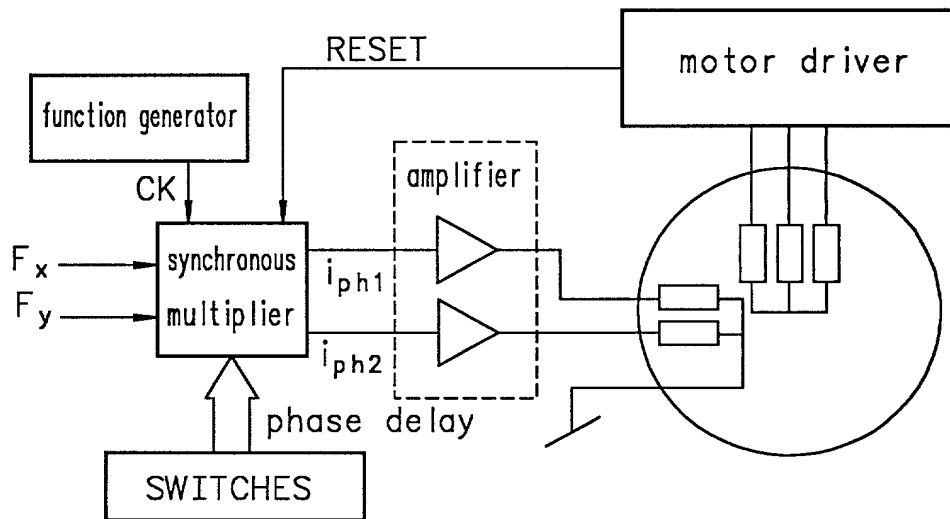


FIG. 28

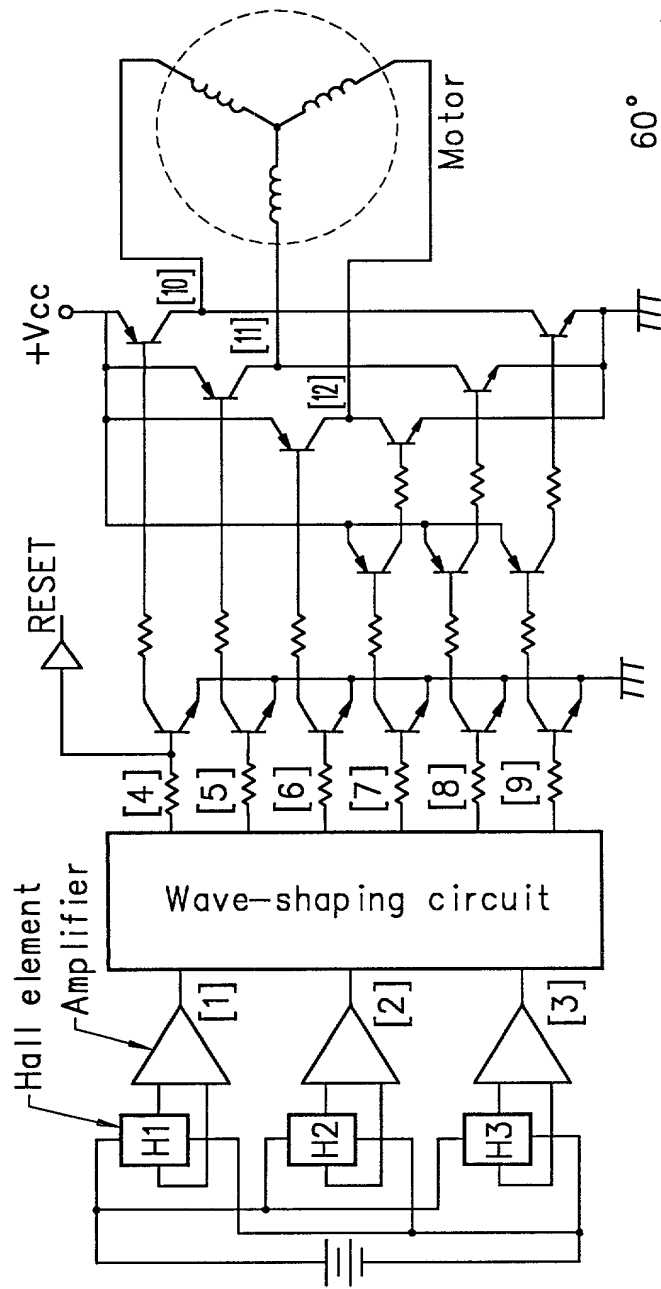


FIG. 26A

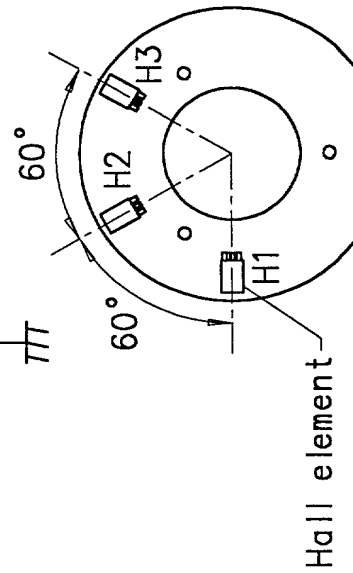


FIG. 26B

(a) Practical circuit of three-phase bipolar driven motor, and arrangement of Hall elements; the number in [] correspond to waveform numbers in Fig.

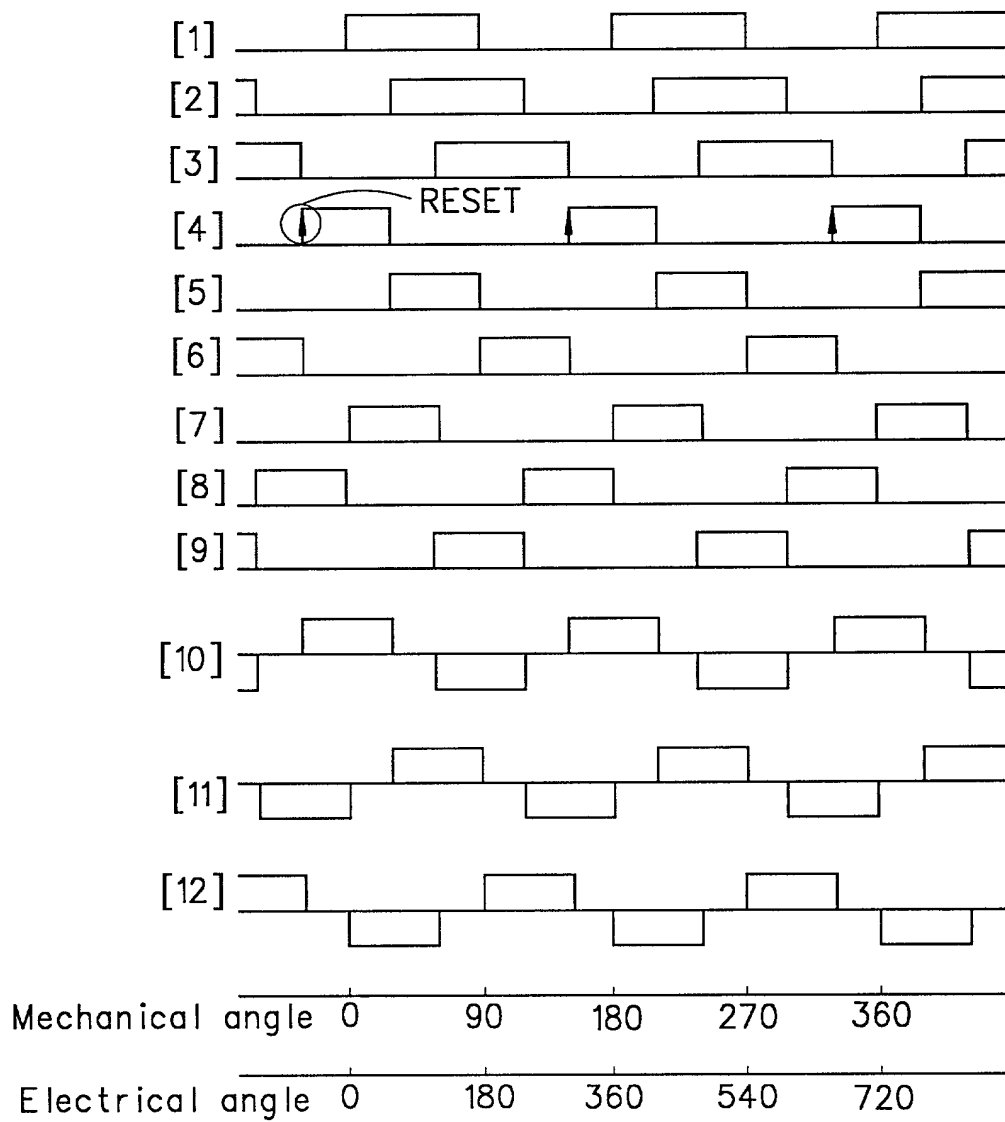


FIG. 27

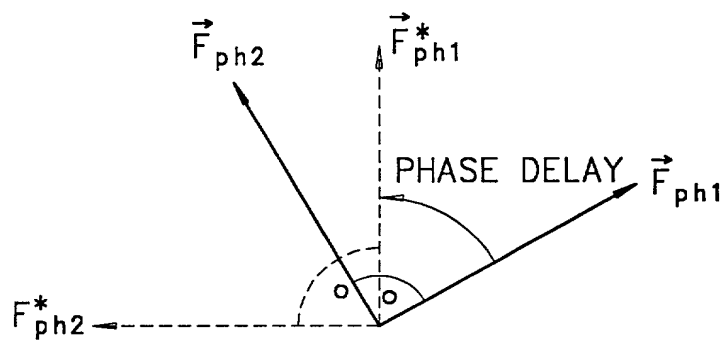


FIG. 29

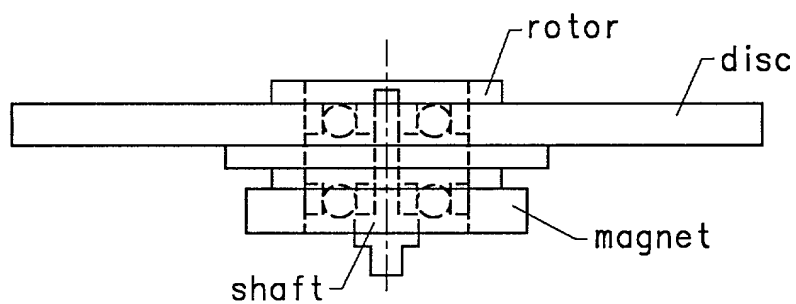


FIG. 30

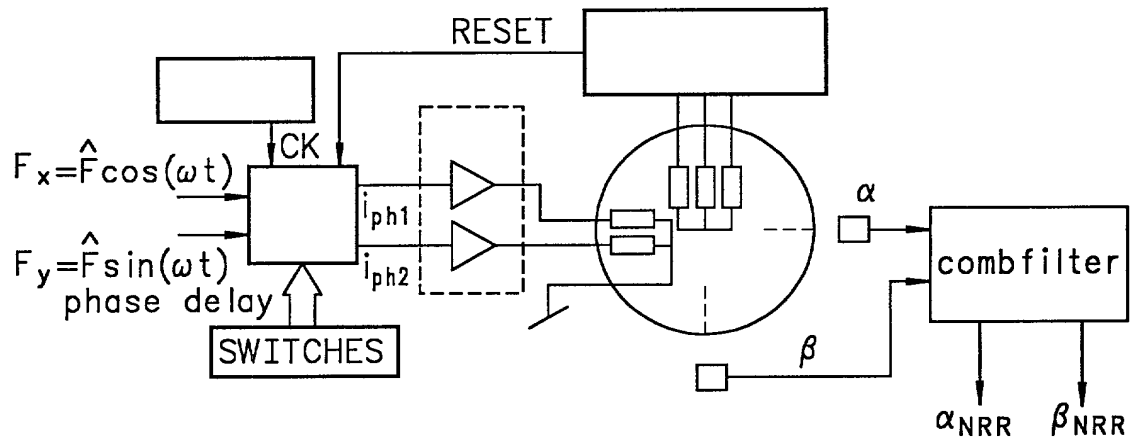


FIG. 31

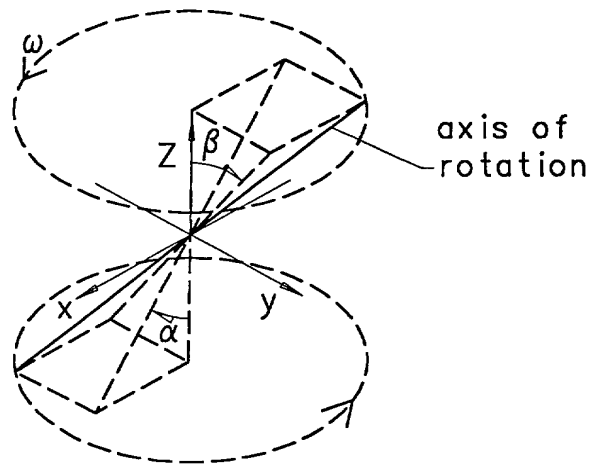


FIG. 32

09249260 0401

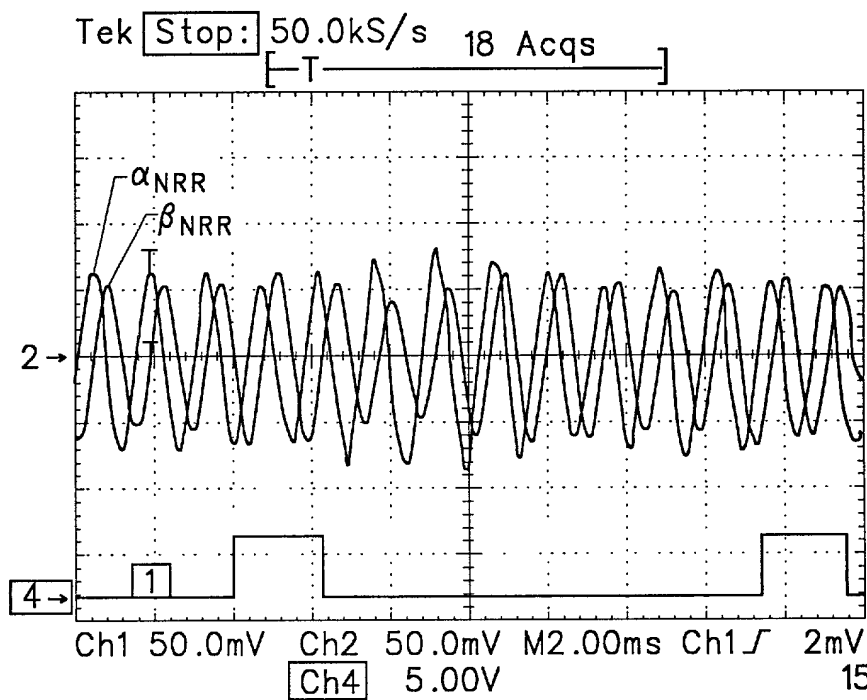


FIG. 33

15 Oct 1996
14:03:00

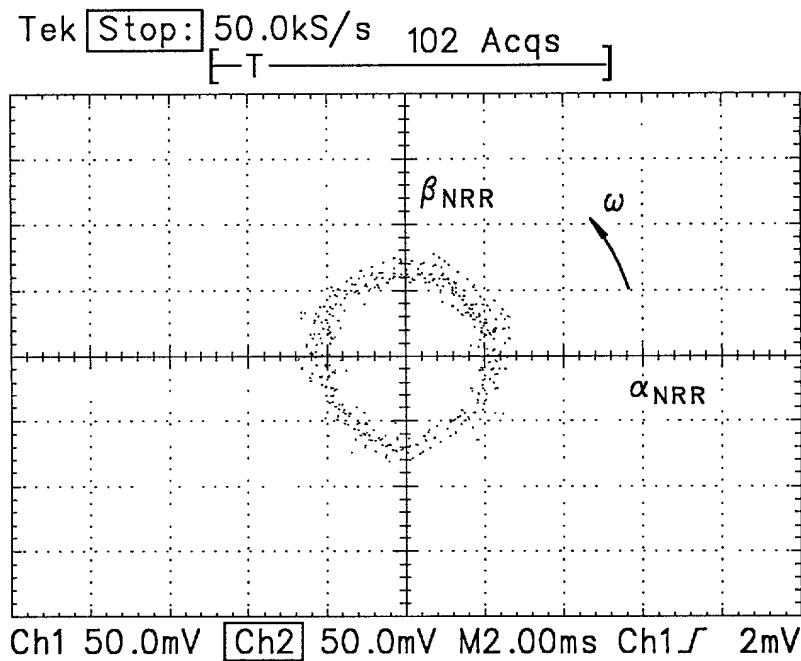
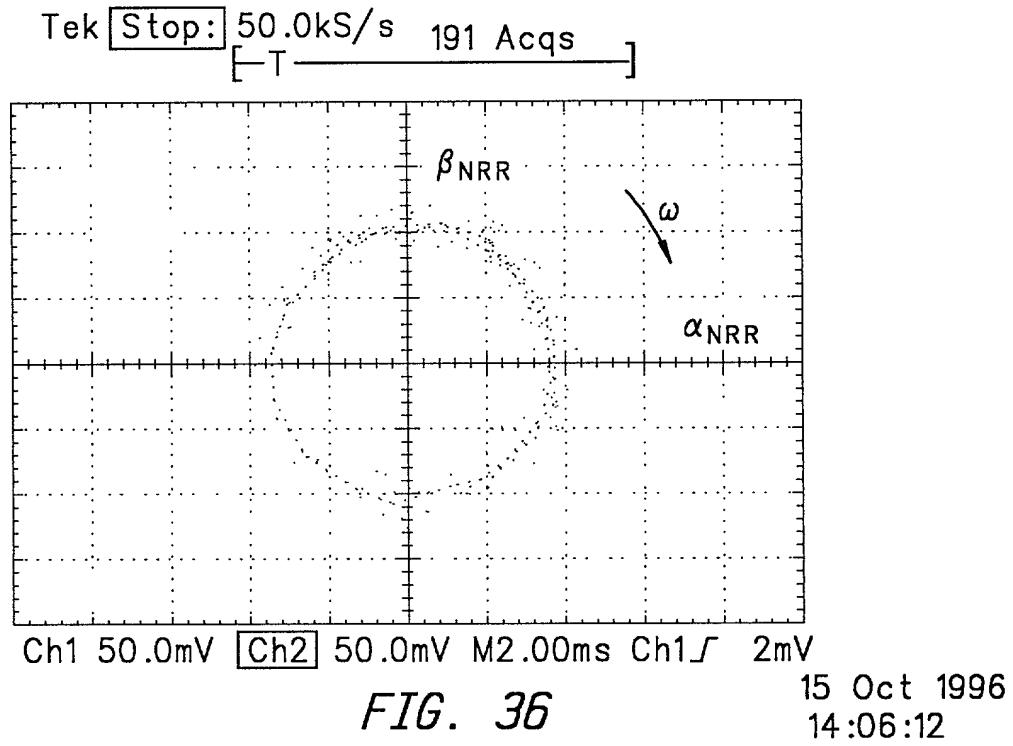
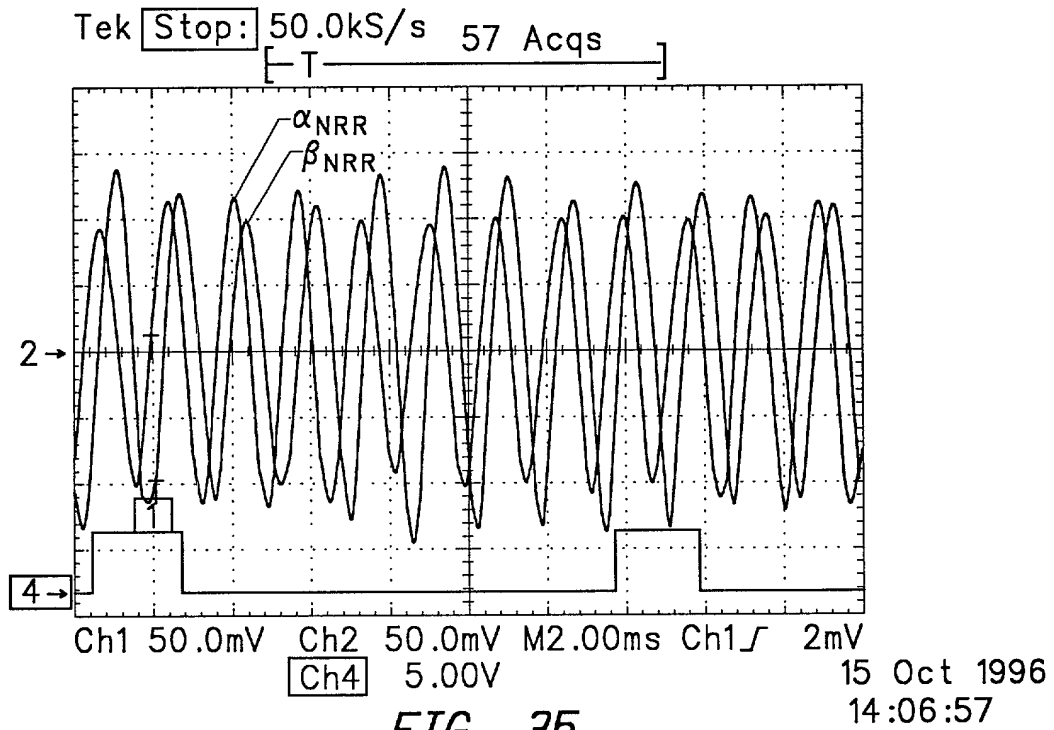


FIG. 34

15 Oct 1996
14:03:30

09249260



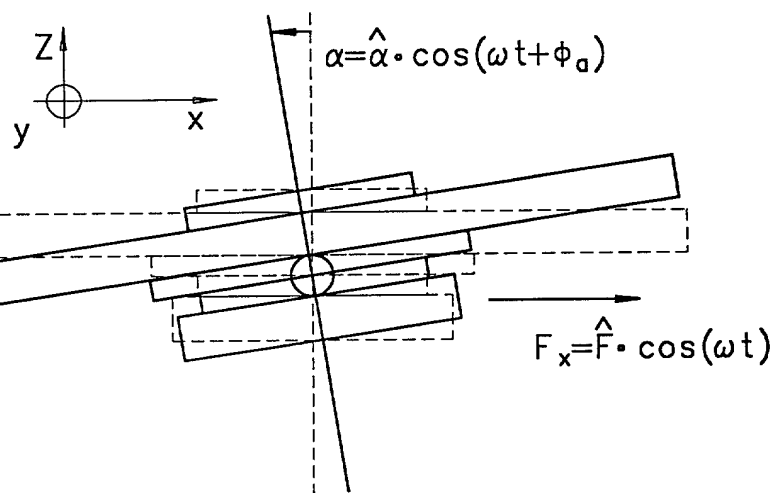


FIG. 37

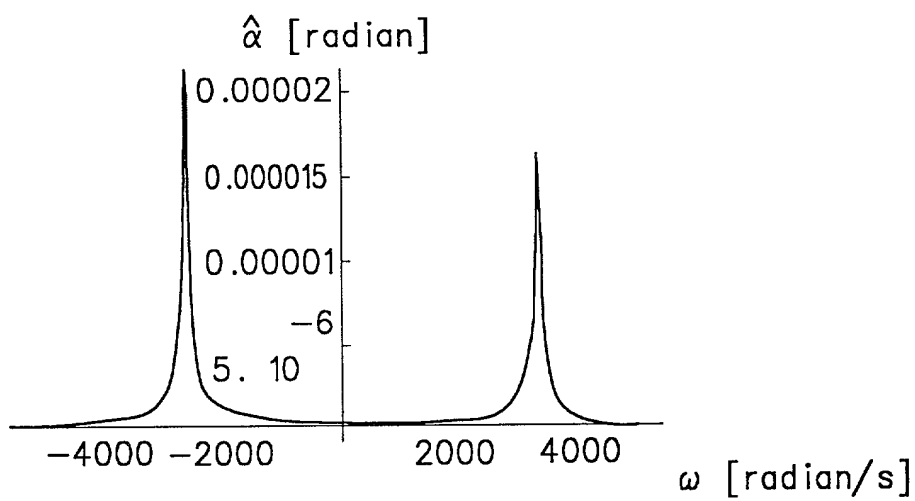


FIG. 38

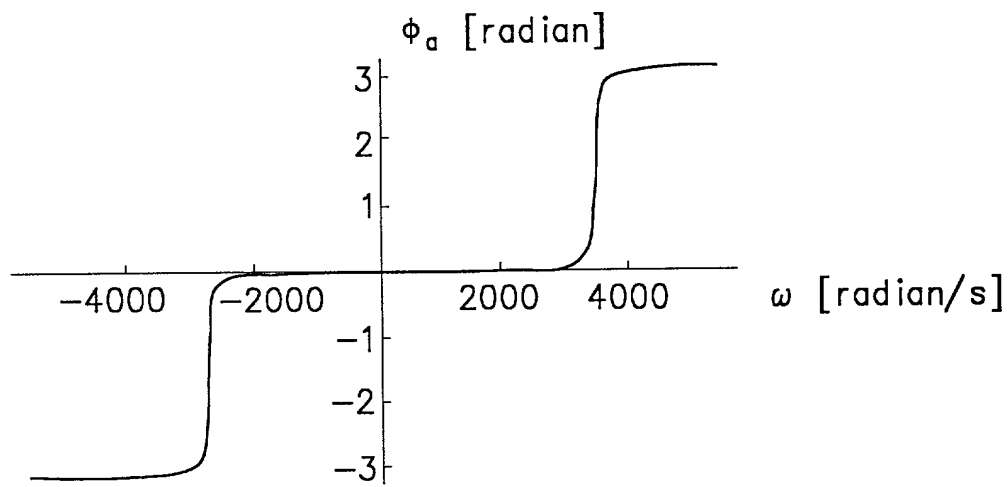


FIG. 39

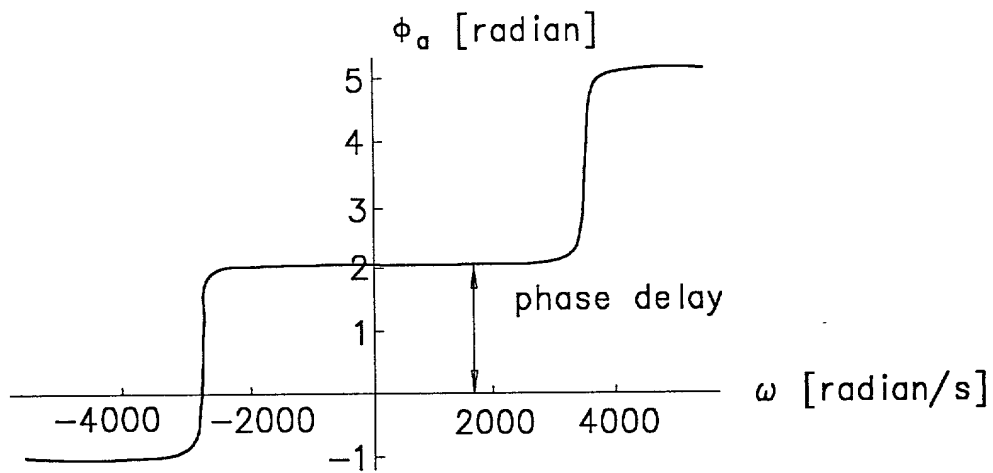


FIG. 40

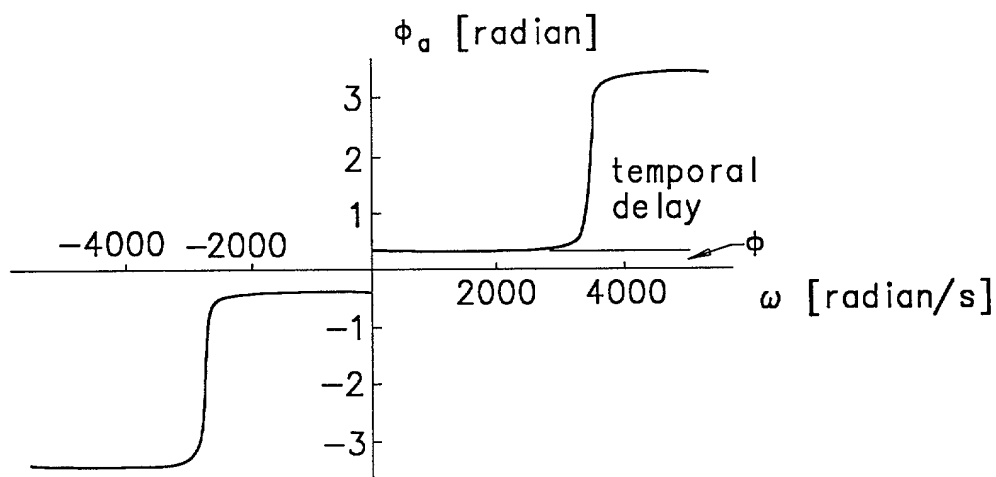


FIG. 41

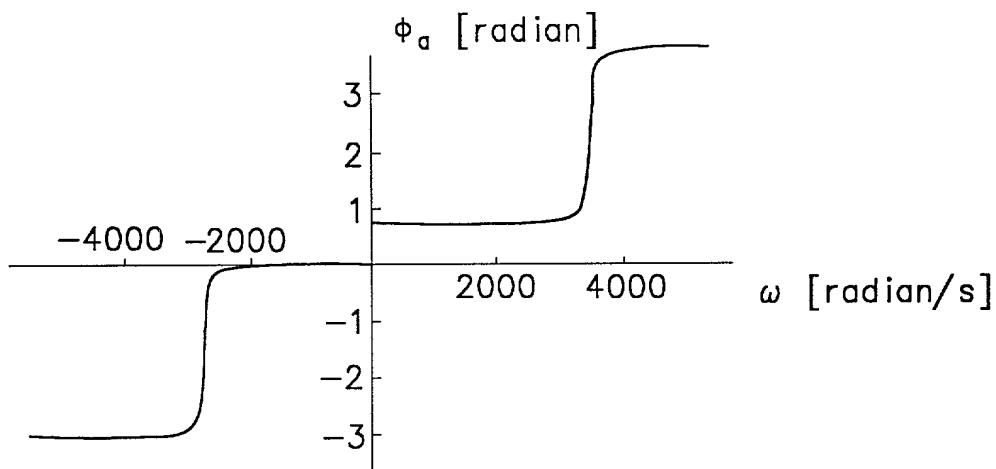


FIG. 42